PATENT COOPERATION TREATY

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From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

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PCT

SCIENTIFC-ATLANTIC						
5030 SUGARLOAF PARKWAY (ATL- LAWRENCEVILLE, GA 30044	WRITTEN OPINION OF THE INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY WE ARREST THE STATE OF THE					
			(PCT Rule 66)	, 60		
		Date of mailing (day/month/year)	28 OCT 2	104		
Applicant's or agent's file reference		REPLY DUE				
F-7484-PC	within 2 months/days from the above date of mailing					
International application No.	International filing date		Priority date (day/mo			
PCT/US03/08597	19 March 2003 (19.03.2		20 March 2002 (20.0	03.2002)		
International Patent Classification (IPC)	or both national classifica	ion and IPC				
IPC(7): H04N 7/16 and US CI.: 725/131	, 134, 139, 142, 151, 37,	38; 348/ 563, 564,	565, 731			
Applicant						
SCIENTIFIC - ATLANTA, INC.						
The written opinion esta	blished by the Internation	al Saarchina Authori	v.			
	s not	it ocarcining Authori	<i>y</i> .	1		
	s not n opinion of the Internation	nal Preliminary Exa	mining Authority			
	non contains indications re		-			
NZ	f the opinion					
Box No. II Priorit						
Box No. III Non-es	tablishment of opinion wi	th regard to novelty,	inventive step and inc	lustrial applicability		
Box No. IV Lack o	f unity of invention			1		
	ed statement under Rule bility; citations and explai			ttive step or industrial		
Box No. VI Certain	documents cited					
Box No. VII Certain	defects in the internation	al application		100		
Box No. VIII Certain	Box No. VIII Certain observations on the international application					
3. The applicant is hereby invited						
	See the time limit indicated above. The applicant may, before the expiration of that time-timit, request this Authority to grant an extension; see Rule 66.2(e).					
For an informal c	s obligation to consider a ommunication with the ex opportunity to submit am	aminer. see Rule 66.	6.	4bis.		
	If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.					
 The final date by which the int according to Rule 69.2 is: 20 h 		ort on patentability	(Chapter II of the PC	T) must be established		
Name and mailing address of the IPEA/	US	Authorized officer	. ,			
Mail Stop PCT, Attn, IPEA/US Commissioner for Patents		Chris Grant	Kenoi	1		
P.O. Box 1450 Alexandria, Virginia 22313-1450		Telephone No. (7	' '	,		

Facsimile No. (703) 305-3230
Form PCT/IPEA/408 (cover sheet)(January 2004)

WRITTEN OPINION OF THE INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

International application	No.
PCT/US03/08597	

Be	ox No	. I Basis of the opinion					
ι.	. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.						
		This opinion is based on a translation from the original language into the following language, which is the language of a translation furnished for the purposes of:					
international scarch (under Rules 12.3 and 23.1(b)) publication of the international application (under Rule 12.4)							
2.	which	With regard to the elements of the international application, this opinion has been established on the basis of (replacement sheet which have been farnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion a originally filed."):					
	\boxtimes	the international application as originally filed/furnished					
	\boxtimes	the description:					
		pages 1-48 as originally filed/furnished					
		pages NONE received by this Authority on					
	KX	pages NONE received by this Authority on					
	\boxtimes	the claims:					
		pages 49, 53-58 as originally filed/furnished pages 50-52 as amended (together with any statement) under Article 19					
		pages NONE received by this Authority on					
		pages NONE received by this Authority on					
	∇	the drawings:					
		pages 1-25 as originally filed/furnished					
		pages NONE received by this Authority on					
		pages NONE received by this Authority on					
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.					
3.	\boxtimes	The amendments have resulted in the cancellation of:					
53							
		the claims, Nos. NONE					
		the drawings, sheets/figs NONE					
		the sequence listing (specify): NONE					
		any table(s) related to the sequence listing (specify); NONE					
4.		This opinion has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).					
		the description, pages					
		the claims, Nos					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					

1. Statement

Novelty (N)	Claims	Please See Continuation Sheet	YE
	Claims	Please See Continuation Sheet	N
Inventive Step (IS)	Claims	Please See Continuation Sheet	YI
	Claims	Please See Continuation Sheet	N
Industrial Applicability (IA)	Claims	Please See Continuation Sheet	YI
	Claims	Please See Continuation Sheet	N

^{2.} Citations and Explanations: Please See Continuation Sheet

International	application	No
PCT/US03/08	1597	

WRITTEN OPINION OF THE INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient.)

TIME LIMIT

The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Report.

V.1. Reasoned Statements:

The opinion as to Novelty was positive (Yes) with respect to claims 7, 8, 10-14, 20, 21, 23-25, 27, 34, 35, 37-41, 47, 48, 50-52 and

The opinion as to Novelty was negative (No) with respect to claims 1-6, 9, 15-19, 22, 26, 28-33, 36, 42-46, 49 and 53

The opinion as to Inventive Step was positive (Yes) with respect to claims 7, 20, 27, 34, 47 and 54. The opinion as to Inventive Step was negative(NO) with respect to claims 1-6, 8-19, 21-26, 28-33, 35-46 and 48-53.

The opinion as to Industrial Applicability was positive (YES) with respect to claims 1-54

The opinion as to Industrial Applicability was negative(NO) with respect to claims NONE

V. 2. Citations and Explanations:

Claims 1 - 6, 9, 15 - 19, 22, 26, 28 - 33, 36, 42 - 46, 49 and 53 lack novelty under PCT Article 33(2) as being anticipated by Shojima.

Regarding claim 1, Shojima discloses transmitting media content from a server to a client terminal (see fig 19) noting that the program data is for multi-channel television or a television meeting (see ool 11 lines 12 - 25) tuns Shojima discloses the broadly claimed "subscriber television system" limitation. Shojima further discloses a storage device comprising a plurality of tuner buffers (244, 245, 246, 247 in fig 14) for storing the media content. Shojima also discloses a composite data buffer part 243 which is associated with the plurality of buffers (see fig 14) and thus discloses the claimed "composite buffer file".

Regarding claim 2, Shojima discloses displaying the media content accessed from the plurality of buffers and from the composite buffer part (see col 9 lines 21 - 43).

Regarding claim 3, Shojima discloses a user can select dictionary data, encyclopedia data or program data table from a multichannel television and thus discloses the claimed limitation as dictionary data, encyclopedia data or television program data tables inherently have "content instance tuller" (see co. [1] lines 13 - 25).

Regarding claims 4 and 5, Shojima discloses associating the pturality of tuner buffer including buffer files with a composite buffer file as discussed above (see lig 14). It is noted that since the media can be read and sent to the composite data buffer part only after the media is loaded in the data buffer parts, a minimum amount of data, or a threshold of data, would have to be loaded before it could be read and sent to the composite buffer files, thus Shojima discloses the claimed threshold including "storage device disk space consumed for the download of the media content."

Regarding claim 6, Shojima discloses associating each of the tuner buffers with corresponding media data. It is noted that the media data stored in the buffer meets the broadly claimed "tuner buffer file" (see col. 11 lines 13 - 25).

Regarding claim 9, Shojima discloses the claimed using the plurality of tuner buffers for a plurality of tuners (see col 9 lines 5

Regarding claim 15, Shojima discloses storing media content in the tuner buffers received from a external media source and associating all, which includes the claimed "one", of the tuner buffers with the composite buffer file (see col 9 lines 5 - 44, col 11 lines 12 - 25).

Regarding claims 16, 17, 18, 19, 22 and 26 are met by the discussions above.

Regarding claim 28, claims 28 recites the same limitations as discussed above and is therefore rejected based on the same

WRITTEN OPINION OF THE INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

International application No. PCT/US03/08597

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient.)

reasoning discussed above. Claim 28 further recites a memory with logic and a processor configured with the logic to associate the plurality of tuner buffers with a composite buffer file which is inherently included in the system since memory logic and processor would be required to search and read data extracted from the data buffers (244, 245, 246, 247) for processing by search part 241 and data reading part 242 to send data to the composite data buffer part 243 (see fig 14).

Claims 29, 30, 31, 32, 33, 36, 42, 43, 44, 45, 46, 49 and 53 are met by the discussions above, noting that a processor configured with logic is inherently included and required to perform the claimed functions.

Claims 8, 10 - 14, 21, 23 - 25, 35, 37 - 41, 48 and 50 - 52 lack an inventive step under PCT Article 33(3) as being obvious over Shojima. Although Shojima fails to disclose the claimed limitation, it would be obvious to modify Shojima to include the claimed limitations.

Regarding claims 8, 21, 35 and 48, Shojima fails to disclose the claimed step of dissociating at least a portion of the tuner buffer file from the tuner buffer after an event corresponding to at least one of a first display channel change, a second display channel change, and a substantial consumption of tuner buffer capacity.

The Examiner takes Official Notice that it would have been well known to dissociate a buffer file from a corresponding buffer after a substantial consumption of buffer capacity to prevent buffer overflow. Therefore, it would have been obvious to one having ordinary skill in the art, at the time the invention was made to modify Shojima to include the claimed limitation to prevent buffer overflow.

Regarding claims 10, 11, 37 and 38, Shojima fails to disclose associating the tuner buffer file with the tuner buffers after a threshold is substantially attained, wherein the threshold includes at least one of a viewing time, storage device disk space consumed for the download of the media content, and priority as determined by the user.

The Examiner takes Official Notice that associating a file with a buffer only after a minimum threshold of a buffer capacity is reached prevents underflow of the buffer. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Shoima to include the claimed limitation to prevent underflow of the data buffer part.

Regarding claims 12, 23, 39 and 50 Shojima fails to disclose the claimed step of providing a user with a user interface screen configured to enable the user to select from which of the buffer files to view the media content.

The Examiner takes Official Notice it would have been well known providing a user interface, i.e. a neur for selecting files would have been provided a more a more organized user friendly means for selecting data. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Stojima to include the claimed limitation to provide a more organized user friendly means for selecting buffer file data.

Regarding claims 15, 14, 24, 25, 40, 41, 51 and 52 although Shojima discloses transmitting program table data for a multichannel television, Shojima fails to disclose the claimed step of configuring the composite buffer file to exclude the media content based on at least one of media content instance rating, media content instance content, existence in a blocked display channel list and reading interactive program guide data to determine the rating and content of the media content.

The Examiner takes Official Notice that it would have been well known in the art to scan EPG data for content ratings and to exclude the media content based on the content rating to provide appropriate programming for minors like young children. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Shojima to include the claimed limitation to provide appropriate programming for minors like young children.

US 6,330,252 A (SHOJIMA) 11 December 2001, see whole document